A completed **Standard Inspection Report** is to be submitted to the Director within 60 days from completion of the inspection. A **Post Inspection Memorandum (PIM)** is to be completed and submitted to the Director within 30 days from the completion of the inspection, or series of inspections, and is to be filed as part of the **Standard Inspection Report**.

Inspection Report	Post Inspection Memorandum					
	Inspector/Submit Date:					
Inspector/Submit Date:	Peer Review/Date:					
	Director Approval/Date:					
	PECTION MEMORANDUM (PIM)					
Name of Operator:	OPID #:					
Name of Unit(s):	Unit #(s):					
Records Location:						
Unit Type & Commodity:						
Inspection Type:	Inspection Date(s):					
OPS Representative(s):	AFO Days:					
Summary:						
Findings:						

Name of Operator: OP ID No. (1)		(1)			
		Unit ID No. (1)			
HQ Address:		System/Unit Name & Add	ress: (1)		
Co. Official:		Activity Record ID No.:			
Phone No.:		Phone No.:			
Fax No.:		Fax No.:			
<b>Emergency Phone No.:</b>		Emergency Phone No.:			
Persons Interviewed	Ti	itle	Phone No.		
OPS Representative(s) (1)	Inspection D	Pate(s) (1)			
Company System Maps (Copies for Reg		( /			
	,				
Unit Description:					
Portion of Unit Inspected: (1)					
Fortion of Onit inspected.					

For gas transmission pipeline inspections, the attached evaluation form should be used in conjunction with 49 CFR 191 and 192 during OPS inspections. If the inspection is in the OPS Joint O&M inspection 5 year period, procedures necessitated by new or amended regulations placed in force after the Joint Team O&M Inspection, and those known to have changed since the Joint Team Inspection, should be reviewed. Items in the procedures sections of this form identified with "\*" reflect applicable and more restrictive new or amended regulations that became effective between 2/25/00 and 2/25/05.

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<sup>&</sup>lt;sup>1</sup> Information not required if included on page 1.

### **49 CFR PART 191**

		REPORTING PROCEDURES S					
.605(b)(4)	Procedures	Procedures for gathering data for incident reporting					
	191.5 Telephonically reporting incidents to NRC (800) 424-8802						
	191.15(a)	30-day follow-up written report (Form 7100-2)					
	191.15(b)	Supplemental report (to 30-day follow-up)					
.605(a)	191.23	Reporting safety-related condition (SRCR)					
	191.25	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery					
	191.27	Offshore pipeline condition reports – filed within 60 days after the inspections					
.605(d)	Instruction	s to enable operation and maintenance personnel to recognize potential Safety Related Conditions					

	191.25	Filing the SRCR within 5 days of determination, but not later than 10 days after discovery				
	191.27	Offshore pipeline condition reports – filed within 60 days after the inspections				
.605(d)	Instruction	ns to enable operation and maintenance personnel to recognize potential Safety Related Conditions				
Comment	ts:					
		49 CFR PART 192				
.13(c)		CUSTOMER NOTIFICATION PROCEDURES	S	U	N/A	N/C
		ures for notifying new customers, within <b>90 days</b> , of their responsibility for those selections of service ot maintained by the operator.				
.605(a)		NORMAL OPERATING and MAINTENANCE PROCEDURES	S	U	N/A	N/O
	.605(a)	O&M Plan review and update procedure (1 per year/15 months)				
	.605(b)(3)	Making construction records, maps, and operating history available to appropriate operating personnel				
	.605(b)(5)	Start up and shut down of the pipeline to assure operation within MAOP plus allowable buildup				
	.605(b)(8)	Periodically reviewing the work done by operator's personnel to determine the effectiveness and adequacy of the procedures used in normal operation and maintenance and modifying the procedures when deficiencies are found				
	.605(b)(9)	Taking adequate precautions in excavated trenches to protect personnel from the hazards of unsafe accumulations of vapors or gas, and making available when needed at the excavation, emergency rescue equipment, including a breathing apparatus and a rescue harness and line				
	.605(b)(10)	Routine inspection and testing of pipe-type or bottle-type holders				
*	.605(b)(11)	Responding promptly to a report of a gas odor inside or near a building, unless the operator's emergency proced. under §192.615(a)(3) specifically apply to these reports. Amdt 192-93 pub.9/15/03, eff. 10/15/03.				

Comments:		

605(a)		ABNORMAL OPERATING PROCEDURES	S	U	N/A N/C
Ī	.605(c)(1)	Procedures for responding to, investigating, and correcting the cause of:			
		(i) Unintended closure of valves or shut downs			
		(ii) Increase or decrease in pressure or flow rate outside of normal operating limits			
		(iii) Loss of communications			
		(iv) The operation of any safety device			
		(v) Malfunction of a component, deviation from normal operations or personnel error			
	.605(c)(2)	Checking variations from normal operation after abnormal operations ended at sufficient critical locations			
	.605(c)(3)	Notifying the responsible operating personnel when notice of an abnormal operation is received			
	.605(c)(4)	Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found			

		(iii) Loss of communications						
		(iv) The operation of any safety device						
		(v) Malfunction of a component, deviation from normal operations or personnel error						
	.605(c)(2)	(iv) The operation of any safety device  (v) Malfunction of a component, deviation from normal operations or personnel error  (o5(c)(2) Checking variations from normal operation after abnormal operations ended at sufficient critical locations  (o5(c)(3) Notifying the responsible operating personnel when notice of an abnormal operation is received						
	.605(c)(3)	Notifying the responsible operating personnel when notice of an abnormal operation is received						
	.605(c)(4)							
Commen	its:							
.605(a)	<u> </u>	CHANCE : CLASS LOCATION DDOCEDUDES	C	T	N/A	N/C		
()	600		3	U	IN/A	N/C		
		· · · · · · · · · · · · · · · · · · ·	+		<u> </u>			
	.011	Collination of Tevision of MAOF		Щ.				
.613		CONTINUING SURVEILLANCE PROCEDURES	S	U	N/A	N/C		
	.613(a)	Procedures for surveillance and required actions relating to change in class location, failures, leakage						
		history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance						
	.613(b)							
Commen		history, corrosion, substantial changes in <b>CP</b> requirements, and unusual operating and maintenance conditions  Procedures requiring <b>MAOP</b> to be reduced, or other actions to be taken, if a segment of pipeline is in						
Commen		history, corrosion, substantial changes in <b>CP</b> requirements, and unusual operating and maintenance conditions  Procedures requiring <b>MAOP</b> to be reduced, or other actions to be taken, if a segment of pipeline is in						
.605(a)		history, corrosion, substantial changes in <b>CP</b> requirements, and unusual operating and maintenance conditions  Procedures requiring <b>MAOP</b> to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition	S	U	N/A	N/C		
		history, corrosion, substantial changes in <b>CP</b> requirements, and unusual operating and maintenance conditions  Procedures requiring <b>MAOP</b> to be reduced, or other actions to be taken, if a segment of pipeline is in	S	U	N/A	N/C		
	its:	history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions  Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition  DAMAGE PREVENTION PROGRAM PROCEDURES  Participation in a qualified one-call program, or if available, a company program that complies	S	U	N/A	N/C		
	its:	history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions  Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition  DAMAGE PREVENTION PROGRAM PROCEDURES  Participation in a qualified one-call program, or if available, a company program that complies with the following:	S	U	N/A	N/C		
	its:	history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions  Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition  DAMAGE PREVENTION PROGRAM PROCEDURES  Participation in a qualified one-call program, or if available, a company program that complies with the following:  (1) Identify persons who engage in excavating	S	U	N/A	N/C		
	its:	history, corrosion, substantial changes in CP requirements, and unusual operating and maintenance conditions  Procedures requiring MAOP to be reduced, or other actions to be taken, if a segment of pipeline is in unsatisfactory condition  DAMAGE PREVENTION PROGRAM PROCEDURES  Participation in a qualified one-call program, or if available, a company program that complies with the following:  (1) Identify persons who engage in excavating  (2) Provide notification to the public in the One Call area	S	U	N/A	N/C		

.605(a)	DAMAGE PREVENTION PROGRAM PROCEDURES					N/C	
	.614	.614 Participation in a qualified one-call program, or if available, a company program that complies with the following:					
		(1) Identify persons who engage in excavating					
		(2) Provide notification to the public in the One Call area					
		(3) Provide means for receiving and recording notifications of pending excavations					
		(4) Provide notification of pending excavations to the members					
		(5) Provide means of temporary marking for the pipeline in the vicinity of the excavations					
		(6) Provides for follow-up inspection of the pipeline where there is reason to believe the pipeline could be damaged					

DAMAGE PREVENTION PROGRAM PROCEDURES					
(i) Inspection must be done to verify integrity of the pipeline					
(ii) After blasting, a leak survey must be conducted as part of the inspection by the operator					

Comments:		

.615		EMERGENCY PROCEDURES	S	U	N/A	N/C
	.615(a)(1)	Receiving, identifying, and classifying notices of events which require immediate response by the operator				
	.615(a)(2)	Establish and maintain communication with appropriate public officials regarding possible emergency				
	.615(a)(3)	Prompt response to each of the following emergencies:				
		(i) Gas detected inside a building				
		(ii) Fire located near a pipeline				
		(iii) Explosion near a pipeline				
		(iv) Natural disaster				
	.615(a)(4)	Availability of personnel, equipment, instruments, tools, and material required at the scene of an emergency				
	.615(a)(5)	Actions directed towards protecting people first, then property				
	.615(a)(6)	Emergency shutdown or pressure reduction to minimize hazards to life or property				
	.615(a)(7)	Making safe any actual or potential hazard to life or property				
	.615(a)(8)	Notifying appropriate public officials required at the emergency scene and coordinating planned and actual responses with these officials				
	.615(a)(9)	Instructions for restoring service outages after the emergency has been rendered safe				
	.615(a)(10)	Investigating accidents and failures as soon as possible after the emergency				
	.615(b)(1)	Furnishing applicable portions of the emergency plan to supervisory personnel who are responsible for emergency action				
	.615(b)(2)	Training appropriate employees as to the requirements of the emergency plan and verifying effectiveness of training				
	.615(b)(3)	Reviewing activities following emergencies to determine if the procedures were effective				
	.615(c)	Establish and maintain liaison with appropriate public officials, such that both the operator and public officials are aware of each other's resources and capabilities in dealing with gas emergencies				

Comments:			

.605(a)		PUBLIC EDUCATION PROCEDURES	$\overline{\mathbf{S}}$	U	N/A	N/C
	.616	Establishing a continuing educational program (in English and other pertinent languages) to better inform the public in how to recognize and report potential gas pipeline emergencies				

FAILURE INVESTIGATION PROCEDURES   S   U N/2							
Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence    .605(a)	Comment	ts:					
Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence    .605(a)							
Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence    .605(a)							
Analyzing accidents and failures including laboratory analysis where appropriate to determine cause and prevention of recurrence    .605(a)							
.605(a)  MAOP PROCEDURES .519 Establishing MAOP so that it is commensurate with the class location MAOP can be determined by:  (a) Design and test or (b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970. In case of offshore gathering lines, for the 5 years preceding July 1, 1976  Comments:    Jack	.617		EAH LIDE INVESTIGATION DEOCEDIDES	C	II	NI/A	N/C
Comments:    AGOS(a)   MAOP PROCEDURES   S U N/2		.617		3	U	IN/A	11/0
.605(a)  MAOP PROCEDURES  .619 Establishing MAOP so that it is commensurate with the class location  MAOP can be determined by:  (a) Design and test or  (b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970. In case of offshore gathering lines, for the 5 years preceding July 1, 1976  Comments:  .13(e) PRESSURE TEST PROCEDURES  S U N/2  .503 Pressure testing  Comments:  .605(a) ODORIZATION of GAS PROCEDURES  6.25(b) Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at V/3 of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.		.017	and prevention of recurrence				
Comments:	Comment	ts:					
Comments:							
Comments:							
Comments:    Comments   Comment							
Comments:    Comments   Comment							
MAOP can be determined by:  (a) Design and test or (b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970. In case of offshore gathering lines, for the 5 years preceding July 1, 1976  Comments:    July 1, 1970	.605(a)		MAOP PROCEDURES	S	U	N/A	N/C
(a) Design and test or (b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970. In case of offshore gathering lines, for the 5 years preceding July 1, 1976  Comments:    July 1, 1970		.619	-				
(b) By highest operating pressure to which the segment of line was subjected between July 1, 1965 and July 1, 1970. In case of offshore gathering lines, for the 5 years preceding July 1, 1976  Comments:    1.13(c)   PRESSURE TEST PROCEDURES   S   U   N/2			MAOP can be determined by:				
Comments:    S U N/2   S   S U N/2							
.13(c) PRESSURE TEST PROCEDURES S U N/2  .503 Pressure testing  Comments:  Comments:    ODORIZATION of GAS PROCEDURES   S U N/2   Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at V <sub>5</sub> of the LEL     * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.							
.13(c)  PRESSURE TEST PROCEDURES  S U N/2  .503 Pressure testing  Comments:  Comments:   ODORIZATION of GAS PROCEDURES  .625(b) Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at V <sub>5</sub> of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.	Common	to.					
Comments:    .605(a)   ODORIZATION of GAS PROCEDURES   S U N/2   .625(b)   Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at 1/5 of the LEL     *   .625(f)   Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.	Commen	18.					
Comments:    .605(a)   ODORIZATION of GAS PROCEDURES   S U N/2   .625(b)   Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at \(^{1/2}\) of the LEL     *   .625(f)   Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.							
.605(a)  ODORIZATION of GAS PROCEDURES  .625(b)  Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at <sup>1/</sup> <sub>5</sub> of the LEL  *  .625(f)  Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.							
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.605(a)  ODORIZATION of GAS PROCEDURES  S U N/A  .625(b) Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at 1/5 of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.	(-)	.503		3	U	IVA	11/
.605(a)  ODORIZATION of GAS PROCEDURES  S U N/A  .625(b) Odorized gas in Class 3 or 4 locations (if applicable) – must be readily detectable by person with normal sense of smell at 1/5 of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.				l			
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.625(b) Odorized gas in <b>Class 3</b> or <b>4</b> locations (if applicable) – must be readily detectable by person with normal sense of smell at $^{1/}{}_{5}$ of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.							
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* normal sense of smell at $^{1/}{}_5$ of the LEL  * .625(f) Periodic gas sampling, using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.	.005(a)	.625(b)		3	U	IN/A	IN/C
the odor becomes readily detectable. Amdt 192-93 pub.9/15/03, eff. 10/15/03.			normal sense of smell at $^{1/}{}_5$ of the LEL				
Comments:	*	.625(f)					
Comments:	Common	tas					
	Comment	is:					
						_	

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE
Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Company of the control o N/C - Not Checked

.605(a)		TAPPING PII	PELINES UNDER PRESSURE PROCE	DURES	S	U	N/A	N/C
	.627	Hot taps must be made by	y a qualified crew					
		NDT testing is suggested	d prior to tapping the pipe. Reference API RP 2	201 for <b>Best Practices</b> .				
605(a)		PII	PELINE PURGING PROCEDURES		S	U	N/A	N/C
	.629	Purging of pipelines mus	at be done to prevent entrapment of an explosive	e mixture in the pipeline				
		(a) Lines containing air	must be properly purged.					
		(b) Lines containing ga	s must be properly purged			<u> </u>		
Commen	ts:							
.605(a)			MAINTENANCE PROCEDURES		S	U	N/A	N/C
,	.703(b)		e that becomes unsafe must be replaced, repaire	d, or removed from				
	(c)	Hazardous leaks must be	repaired promptly					
Commen	ts:							
		RANSMISSION LINES	- PATROLLING & LEAKAGE SURV	EY PROCEDURES	s	U	N/A	N/C
Commen	Т		- PATROLLING & LEAKAGE SURV	EY PROCEDURES	S	U	N/A	N/C
		RANSMISSION LINES  Patrolling ROW conditio  Maximum interval between	ons	EY PROCEDURES	S	U	N/A	N/C
	.705(a)	Patrolling ROW condition Maximum interval betwee  Class Location	een patrols of lines:  At Highway and Railroad Crossings	At All Other Places	S	U	N/A	N/C
	.705(a)	Patrolling ROW condition  Maximum interval betwee  Class Location  1 and 2	een patrols of lines:  At Highway and Railroad Crossings  2/yr (7½ months)	At All Other Places 1/yr (15 months)	S	U	N/A	N/C
	.705(a)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)	At All Other Places 1/yr (15 months) 2/yr (7½ months)	S	U	N/A	N/C
	.705(a)	Patrolling ROW condition  Maximum interval betwee  Class Location  1 and 2	een patrols of lines:  At Highway and Railroad Crossings  2/yr (7½ months)	At All Other Places 1/yr (15 months)	S	U	N/A	N/C
	.705(a)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)	At All Other Places 1/yr (15 months) 2/yr (7½ months)	S	U	N/A	N/C
	.705(a) (b)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3  4  Leakage surveys – 1 year	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)	At All Other Places 1/yr (15 months) 2/yr (7½ months) 4/yr (4½ months)	S	U	N/A	N/C
	.705(a) (b)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3  4  Leakage surveys – 1 year  Leak detector equipmen	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)  r/15 months	At All Other Places 1/yr (15 months) 2/yr (7½ months) 4/yr (4½ months)  -odorized gas	S	U	N/A	N/C
	.705(a) (b)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3  4  Leakage surveys – 1 year  Leak detector equipmen  (a) Class 3 locations – 2	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)  r/15 months  at survey requirements for lines transporting un	At All Other Places 1/yr (15 months) 2/yr (7½ months) 4/yr (4½ months)  -odorized gas	S	U	N/A	N/C
	.705(a) (b)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3  4  Leakage surveys – 1 year  Leak detector equipmen  (a) Class 3 locations – 2	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)  r/15 months  at survey requirements for lines transporting un  7½ months but at least twice each calendar years	At All Other Places 1/yr (15 months) 2/yr (7½ months) 4/yr (4½ months)  -odorized gas	S	U	N/A	N/C
.605(b)	.705(a) (b)	Patrolling ROW condition  Maximum interval between  Class Location  1 and 2  3  4  Leakage surveys – 1 year  Leak detector equipmen  (a) Class 3 locations – 2	At Highway and Railroad Crossings  2/yr (7½ months)  4/yr (4½ months)  4/yr (4½ months)  r/15 months  at survey requirements for lines transporting un  7½ months but at least twice each calendar years	At All Other Places 1/yr (15 months) 2/yr (7½ months) 4/yr (4½ months)  -odorized gas	S	U	N/A	N/C

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE
Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Of If an item is marked U, N/A, or N/C, an explanation must be included in this report. N/C - Not Checked

.605(b)		LINE MARKER PROCEDURES			N/A	N/C
	.707	Line markers installed and labeled as required				

Comments:			

.605(b)		RECORD KEEPING PROCEDURES	S	U	N/A	N/C
	.709	Records must be maintained				
	(a) Repairs to the pipe – <b>life of system</b>					
		(b) Repairs to "other than pipe" – 5 years				
		(c) Operation (Sub L) and Maintenance (Sub M) patrols, surveys, tests – 5 years or until next one				

	FIELD REPAIR PROCEDURES	S	U	N/A	N/C
	Imperfections and Damages			<u></u>	
.713(a)	Repairs of imperfections and damages on pipelines operating above 40% SMYS				
	(1) Cut out a cylindrical piece of pipe and replace with pipe of ≥ design strength				
	(2) Use of a reliable engineering method				
.713(b)	Reduce operating pressure to a safe level during the repair				
	Permanent Field Repair of Welds			•	
.715	Welds found to be unacceptable under §192.241(c) must be repaired by:				
	(a) If feasible, taking the line out of service and repairing the weld in accordance with the applicable requirements of §192.245.				
	(b) If the line remains in service, the weld may be repaired in accordance with §192.245 if:				
	(1) The weld is not leaking				
	(2) The pressure is reduced to produce a stress that is 20% of SMYS or less				
	(3) Grinding is limited so that 1/8 inch of pipe weld remains				
	(c) If the weld cannot be repaired in accordance with <b>(a) or (b)</b> above, a full encirclement welded split sleeve must be installed				
	Permanent Field Repairs of Leaks				
.717	Field repairs of leaks must be made as follows:				
	(a) Replace by cutting out a cylinder and replace with pipe similar or of greater design				
	(b)(1) Install a full encirclement welded split sleeve of an appropriate design unless the pipe is joined by mechanical couplings and operates at less than 40% SMYS				
	(b)(2) A leak due to a corrosion pit may be repaired by installing a bolt on leak clamp				
	(b)(3) For a corrosion pit leak, if a pipe is not more than 40,000 psi SMYS, the pits may be repaired by fillet welding a steel plate. The plate must have rounded corners and the same thickness or greater than the pipe, and not more than ½ D of the pipe size				
	(b)(4) Submerged offshore pipe or pipe in inland navigable waterways may be repaired with a mechanically applied full encirclement split sleeve of appropriate design				
	(b)(5) Apply reliable engineering method				
	Testing of Repairs				
.719(a)	Replacement pipe must be pressure tested to meet the requirements of a new pipeline				

	FIELD REPAIR PROCEDURES	S	U	N/A	N/C
(b)	For lines of 6-inch diameter or larger and that operate at 20% of more of SMYS, the repair must				
	be nondestructively tested in accordance with §192.241(c)				

Comments:	

.605(b)		ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES	S	U	N/A N/C
	.727(b)	Operator must disconnect both ends, purge, and seal each end before abandonment or a period of deactivation where the pipeline is not being maintained. Offshore abandoned pipelines must be filled with water or an inert material, with the ends sealed			
	(c)	Except for service lines, each inactive pipeline that is not being maintained under Part 192 must be disconnected from all gas sources/supplies, purged, and sealed at each end.			
	(d)	Whenever service to a customer is discontinued, do the procedures indicate one of the following:			
		(1) The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator			
		(2) A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly			
		(3) The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed			
	(e)	If air is used for purging, the operator shall ensure that a combustible mixture is not present after purging			
*	.727 (g)	Operator must file reports upon abandoning underwater facilities crossing navigable waterways, including offshore facilities Amdt. 192-89 pub. 9/8/00, eff. 10/10/00.			

Comments:			

.605(b)		COMPRESSOR STATION PROCEDURES	S	U	N/A	N/C
	.605(b)(6)	Maintenance procedures, including provisions for isolating units or sections of pipe and for purging before returning to service				
	.605(b)(7)	Starting, operating, and shutdown procedures for gas compressor units				
	.731	Inspection and testing procedures for remote control shutdowns and pressure relieving devices (1 per yr/15 months), prompt repair or replacement				
	.735	(a) Storage of excess flammable or combustible materials at a safe distance from the compressor buildings				
		(b) Tank must be protected according to NFPA #30				
	.736	Compressor buildings in a compressor station must have fixed gas detection and alarm systems (must be performance tested), unless:				
		• 50% of the upright side areas are permanently open, or				
		• It is an unattended field compressor station of 1000 hp or less				

STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE
Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Company of the control o N/C - Not Checked

.605(b)	PRESSURE LIMITING and REGULATING STATION PROCEDURES	S	U	N/A	N/C
	.739(a) Inspection and testing procedures for pressure limiting stations, relief devices, pressure regulating stations and equipment (1 per yr/15 months)				
	(1) In good mechanical condition				
	(2) Adequate from the standpoint of capacity and reliability of operation for the service in which it is employed				
*	.739(a) (3) Set to control or relieve at correct pressures consistent with .201(a), except for .739(b). Amdt. 192-96 pub. 5/17/04, eff.10/8/04				
	(4) Properly installed and protected from dirt, liquids, other conditions that may prevent proper oper.				
*	.739(b) For steel lines if MAOP is determined per .619(c) and the MAOP is 60 psi (414 kPa) gage or more Amdt. 192-96 pub. 5/17/04, eff.10/8/04				
	If MAOP produces hoop stress that   Then the pressure limit is:				
	Is greater than 72 percent of SMYS MAOP plus 4 percent				
	Is unknown as a percent of SMYS  A pressure that will prevent unsafe operation of the pipeline considering its operating and maintenance history and MAOP				
	.743 Testing of Relief Devices				
*	.743 (a) Capacity must be consistent with .201(a) except for .739(b), and be determined 1 per yr/15 mo. Amdt. 192-96 pub. 5/17/04, eff.10/8/04				
*	.743 (b) If calculated, capacities must be compared; annual review and documentation are required. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.				
*	.743 (c) If insufficient capacity, new or additional devices must be installed to provide required capacity. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.				
Commen	ts:				
		C	TT	N/A	N/C
	VALVE AND VAULT MAINTENANCE PROCEDURES	S	U	N/A	N/C
	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  745 (a) Inspect and partially operate each transmission valve that might be required during an	S	U	N/A	N/C
	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves	S	U	N/A	N/C
.605(b)	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745  (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745  (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff.	S	U	N/A	N/C
.605(b)	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745  (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745  (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.	S	U	N/A	N/C
.605(b) *	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745 (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745 (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.  Vaults	S		N/A	
.605(b) *	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745  (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745  (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.  Vaults  .749  Inspection of vaults greater than 200 cubic feet (1 per yr/15 months)				
.605(b) *	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745 (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745 (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.  Vaults  .749 Inspection of vaults greater than 200 cubic feet (1 per yr/15 months)  PREVENTION of ACCIDENTAL IGNITION PROCEDURES				
.605(b)	VALVE AND VAULT MAINTENANCE PROCEDURES  Valves  .745 (a) Inspect and partially operate each transmission valve that might be required during an emergency (1 per yr/15 months)  .745 (b) Prompt remedial action required, or designate alternative valve. Amdt. 192-93 pub. 9/15/03, eff. 10/15/03.  Vaults  .749 Inspection of vaults greater than 200 cubic feet (1 per yr/15 months)  PREVENTION of ACCIDENTAL IGNITION PROCEDURES  .751 Reduce the hazard of fire or explosion by:				

Comments:	

(c)		WELDING AND WELD DEFECT REPAIR/REMOVAL PROCEDURES	S	U	N/A	N/
*	.225	(a) Welding procedures must be qualified under <b>Section 5 of API 1104</b> (19 <sup>th</sup> ed.1999, 10/31/01 errata) or <b>Section IX of ASME Boiler and Pressure Code</b> (2001 ed.) by destructive test. Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
		(b) Retention of welding procedure – details and test				
*	.227	(a) Welders must be qualified by <b>Section 6 of API 1104</b> (19 <sup>th</sup> ed.1999, 10/31/01 errata) or <b>Section IX of ASME Boiler and Pressure Code</b> (2001 ed.) See exception in .227(b). Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
		(b) Welders may be qualified under <b>section I of Appendix</b> C to weld on lines that operate at < 20% SMYS.				
	.229	(a) To weld on compressor station piping and components, a welder must successfully complete a destructive test				
		(b) Welder must have used welding process within the preceding <b>6 months</b>				Ш
		(c) A welder qualified under .227(a)–				
*	.229(c)	(1) May not weld on pipe that operates at ≥ 20% SMYS unless within the preceding 6 calendar months the welder has had one weld tested and found acceptable under the sections 6 or 9 of API Standard 1104; may maintain an ongoing qualification status by performing welds tested and found acceptable at least twice per year, not exceeding 7½ months; may not requalify under an earlier referenced edition. Amdt.192-94 pub. 6/14/04, eff. 7/14/04.				
		(2) May not weld on pipe that operates at < 20% SMYS unless is tested in accordance with .229(c)(1) or requalifies under .229(d)(1) or (d)(2).				
		(d) Welders qualified under .227(b) may not weld unless:				
		(1) Requalified within 1 year/15 months, or				
		(2) Within 7½ months but at least twice per year had a production weld pass a qualifying test				
	.231	Welding operation must be protected from weather				
	.233	Miter joints (consider pipe alignment)				_
	.235	Welding preparation and joint alignment				
*	.241	(a) Visual inspection must be conducted by an individual qualified by appropriate training and experience to ensure: Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
		(1) Compliance with the welding procedure				l
		(2) Weld is acceptable in accordance with Section 9 of API 1104				
		(b) Welds on pipelines to be <b>operated at 20% or more of SMYS</b> must be nondestructively tested in accordance with <b>192.243</b> except welds that are visually inspected and approved by a qualified welding inspector if:				
		(1) The nominal pipe diameter is less than 6 inches, or				l
		(2) The pipeline is to operate at a pressure that produces a hoop stress of less than 40% of SMYS and the welds are so limited in number that nondestructive testing is impractical				
*	.241	(c) Acceptability based on visual inspection or NDT is determined according to <b>Section 9 of API 1104.</b> If a girth weld is unacceptable under <b>Section 9</b> for a reason other than a crack, and if <b>Appendix A to API 1104</b> applies to the weld, the acceptability of the weld may be further determined under that appendix. Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
	.245	Repair and Removal of Weld Defects				
		(a) Each weld that is unacceptable must be removed or repaired. Except for offshore pipelines, a weld must be removed if it has a crack that is more than 8% of the weld length				
		(b) Each weld that is repaired must have the defect removed down to sound metal, and the segment to be repaired must be preheated if conditions exist which would adversely affect the quality of the weld repair. After repair, the weld must be inspected and found acceptable.				

.13(c)	WELDING AND WELD DEFECT REPAIR/REMOVAL PROCEDURES	S	U	N/A	N/C
	(c) Repair of a crack or any other defect in a previously repaired area must be in accordance with a written weld repair procedure, qualified under §192.225				
	• Sleeve Repair – low hydrogen rod (Best Practices –ref. API 1104 App. B, In Service Welding)				

Comments:			

.13(c)		NONDESTRUCTIVE TESTING PRO	CEDURES	S	U	I/A	N/C
	.243	(a) Nondestructive testing of welds must be performed by a clearly indicates defects that may affect the integrity of					
		b) Nondestructive testing of welds must be performed:					
		(1) In accordance with a written procedure, and		Т			
		(2) By persons trained and qualified in the established used	procedures and with the test equipment				
		c) Procedures established for proper interpretation of each acceptability of the weld under 192.241(c)	nondestructive test of a weld to ensure				
		(d) When nondestructive testing is required under §192.241 day's field butt welds, selected at random by the operator the entire circumference		•	·	•	
		(1) In Class 1 locations at least 10%					
		(2) In Class 2 locations at least 15%					
		(3) In Class 3 and 4 locations, at crossings of a major railroad or public highway rights-of-way, including crossings, 100% unless impractical, then 90%. No for each girth weld not tested.	tunnels, bridges, and overhead road				
		(4) At pipeline tie-ins, 100%					
		(e) Except for a welder whose work is isolated from the print each welder's work for each day must be nondestructive required under §192.241(b)					
		f) Nondestructive testing – the operator must retain, for the mile post, engineering station, or by geographic feature, tested, the number of welds rejected, and the disposition	the number of welds nondestructively				

.273(b)		JOINING of PIPELINE MATERIALS	S	U	N/A	N/C
	.281	Joining of plastic pipe				
		Type of plastic used				
		<ul> <li>Proper markings in accordance with §192.63</li> </ul>				
		Manufacturer				
		Type of joint used				
*	.283	Qualified joining procedures for plastic pipe must be in place Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
*	.285	Persons making joints with plastic pipe must be qualified Amdt.192-94 pub. 6/14/04, eff. 7/14/04				
*	.287	Persons inspecting plastic joints must be qualified Amdt.192-94 pub. 6/14/04, eff. 7/14/04				

Comments:		

605(b)		CORROSION CONTROL PROCEDURES	S	U	N/A	N/C
	.453	Are corrosion procedures established for:				
F -		• Design				Г
		• Operations				
.455		Installation				
		Maintenance				
	.455	(a) For pipelines installed <b>after July 31, 1971</b> , buried segments must be externally coated and (b) cathodically protected within <b>one year</b> after construction (see exceptions in code)				
		(c) Aluminum may not be installed in a buried or submerged pipeline if exposed to an environment with a natural pH in excess of 8 (see exceptions in code)				
	.457	(a) All effectively coated steel transmission pipelines installed prior to <b>August 1, 1971</b> , must be cathodically protected				
		(b) If installed <b>before August 1, 1971</b> , cathodic protection must be provided in areas of active corrosion for: bare or ineffectively coated transmission lines, and bare or coated c/s, regulator sta, and meter sta. piping.				
	.459	Examination of buried pipeline when exposed: if corrosion is found, further investigation is required				
	.461	Procedures must address the protective coating requirements of the regulations. External coating on the steel pipe must meet the requirements of this part.				
	.463	Cathodic protection level according to Appendix D criteria				
	.465	(a) Pipe-to-soil monitoring (1 per yr/15 months)				
		(b) Rectifier monitoring (6 per yr/2½ months)				
		(c) Interference bond monitoring (as required)				
		(d) Prompt remedial action to correct any deficiencies indicated by the monitoring				
*	.465	(e) Electrical surveys (closely spaced pipe to soil) on bare/unprotected lines, cathodically protect active corrosion areas (1 per 3 years/39 months) Amdt 192-93 pub.9/15/03, eff. 10/15/03.				
	.467	Electrical isolation (include casings)				
	.469	Sufficient test stations to determine CP adequacy				
	.471	Test lead maintenance				
	.473	Interference currents				
	.475	(a) Proper procedures for transporting corrosive gas?				
		(b) Removed pipe must be inspected for internal corrosion. If found, the adjacent pipe must be inspected to determine extent. Certain pipe must be replaced. Steps must be taken to minimize internal corrosion.				
	.477	Internal corrosion control coupon (or other suit. Means) monitoring (2 per yr/7½ months)				
	.479	(a) Each exposed pipe must be cleaned and coated (see exceptions under .479(c))				1
		Offshore splash zones and soil-to-air interfaces must be coated				
		(b) Coating material must be suitable				
		Coating is not required where operator has proven that corrosion will:				
		(c) (1) Only be a light surface oxide, or				
		(2) Not affect safe operation before next scheduled inspection				
	.481	(a) Atmospheric corrosion control monitoring (1 per 3 yrs/39 months onshore; 1 per yr/15 months offshore)				

# STANDARD INSPECTION REPORT OF A GAS TRANSMISSION PIPELINE Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not O

		CORROSION CONTROL PROCEDURES	S	U	N/A N/
*	.481	(b) Special attention required at soil/air interfaces, thermal insulation, under disbonded coating, pipe supports, splash zones, deck penetrations, spans over water Amdt 192-93 pub.9/15/03, eff. 10/15/03.			
*	.481	(c) Protection must be provided if atmospheric corrosion is found (per §192.479) Amdt 192-93 pub.9/15/03, eff. 10/15/03.			
	.483	Replacement and required pipe must be coated and cathodically protected (see code for exceptions)			
	.485	(a) Procedures to replace pipe or reduce the <b>MAOP</b> if general corrosion has reduced the wall thickness?			
		(b) Procedures to replace/repair pipe or reduce MAOP if localized corrosion has reduced wall thickness (unless reliable engineering repair method exists)?			
		(c) Procedures to use <b>Rstreng</b> or <b>B-31G</b> to determine remaining wall strength?			
	.491	Corrosion control maps and record retention (pipeline service life or 5 yrs)			
omment	s:				
		UNDERWATER INSPECTION PROCEDURES – GULF of MEXICO and INLETS	S	U	N/A N/
		Operator must have a procedure prepared by August 10, 2005 to identify pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) deep that are at risk of being an exposed	S	U	N/A N/
05(b)	1	Operator must have a procedure prepared by August 10, 2005 to identify pipelines in the Gulf of	S	U	N/A N/
05(b)	.612(a)	Operator must have a procedure prepared by August 10, 2005 to identify pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) deep that are at risk of being an exposed underwater pipeline or a hazard to navigation? Amdt. 192-98 pub. 8/10/04, eff. 9/9/04  Operator must conduct appropriate periodic underwater inspections based on the identified risk Amdt.	S	U	N/A N/
05(b)	.612(a)	Operator must have a procedure prepared by August 10, 2005 to identify pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) deep that are at risk of being an exposed underwater pipeline or a hazard to navigation? Amdt. 192-98 pub. 8/10/04, eff. 9/9/04  Operator must conduct appropriate periodic underwater inspections based on the identified risk Amdt. 192-98 pub.8/10/04, eff. 9/9/04  Do procedures require the operator to take action when the operator discovers that a pipeline is	S	U	N/A N/
05(b)	.612(a)	Operator must have a procedure prepared by August 10, 2005 to identify pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) deep that are at risk of being an exposed underwater pipeline or a hazard to navigation? Amdt. 192-98 pub. 8/10/04, eff. 9/9/04  Operator must conduct appropriate periodic underwater inspections based on the identified risk Amdt. 192-98 pub.8/10/04, eff. 9/9/04  Do procedures require the operator to take action when the operator discovers that a pipeline is exposed on the seabed, or constitutes a hazard to navigation:	S	U	N/A N/

.801- .809	Subpart N — Qualification of Pipeline Personnel Procedures	$\overline{\mathbf{S}}$	U	N/AN/C
.007	Refer to Operator Qualification Inspection Forms and Protocols (OPS web site)			

.901- .951	Subpart O — Pipeline Integrity Management	S	U	N/AN/	'C
	This form does not cover Gas Pipeline Integrity Management Programs				

<b>Comments:</b>		

Unless otherwise noted, all code references are to 49CFR Part 192. S – Satisfactory U – Unsatisfactory N/A – Not Applicable N/C – Not Checked If an item is marked U, N/A, or N/C, an explanation must be included in this report.

A 1	- 4		r 4	•		
ΔΙ	ert	- 1	\ <b>n</b> ti	r	ΔC	•
$\Gamma$	CIL	Τ.	U.	u	CO	٠

What process does the operator have to address Alert Notices:

Comments:			

### **Recent Pipeline Safety Advisory Bulletin**

ADB-04-03 in August 18, 2004 Federal Register, pp. 51348-51349 (Ref. fr18au04N Pipeline Safety: Unauthorized Excavations and the Installation of Third-Party Data Acquisition Devices on Underground Pipeline Facilities)

Reference <a href="http://www.gpoaccess.gov/fr/advanced.html">http://www.gpoaccess.gov/fr/advanced.html</a>

**Best Practice: Stress Corrosion Cracking** 

Pipeline Safety Advisory Bulletin ADB-03-05 in October 8, 2003 Federal Register, pp.58166-58168 (Ref.

fr08oc03N Pipeline Safety: Stress Corrosion Cracking (SCC) Threat to Gas and Liquid Pipelines).

Reference <a href="http://www.gpoaccess.gov/fr/advanced.html">http://www.gpoaccess.gov/fr/advanced.html</a>

Is the operator aware of the SCC bulletin, and is the operator reviewing their system for the potential of SCC? Y/N

	PIPELINE INSPECTION (Field)	S	U	N/A	N/C
.179	Valve Protection from Tampering or Damage				
.463	Cathodic Protection				
.465	Rectifiers				
.479	Pipeline Components Exposed to the Atmosphere				
.605	Knowledge of Operating Personnel				
.612(a)	Pipelines exposed on seabed (Gulf of Mexico and Inlets): Marking				
.707	ROW Markers, Road and Railroad Crossings				
.719	Pre-pressure Tested Pipe (Markings and Inventory)				
.739	Pressure Limiting and Regulating Devices (Mechanical)				
.743	Pressure Limiting and Regulating Devices (Capacities)				
.745	Valve Maintenance				
.751	Warning Signs				
.801809	Operator qualification questions – See Attachment 3				

Comments:		

	COMPRESSOR STATIONS INSPECTION (Field)	S	IJ	N/A	N/C
	(Note: Facilities may be "Grandfathered")	5	O	1 1/11	14/
.163 (c)	Main operating floor must have (at least) two (2) separate and unobstructed exits				
	Door latch must open from inside without a key				
	Doors must swing outward				
(d)	Each fence around a compressor station must have (at least) 2 gates or other facilities for emergency exit				
	Each gate located within 200 ft of any compressor plant building must open outward				
	When occupied, the door must be opened from the inside without a key				
(e)	Does the equipment and wiring within compressor stations conform to the <b>National Electric Code</b> , <b>ANSI/NFPA 70?</b>				
.165(a)	If applicable, are there liquid separator(s) on the intake to the compressors?				
.165(b)	Do the liquid separators have a manual means of removing liquids?				
	If slugs of liquid could be carried into the compressors, are there automatic dumps on the separators, Automatic compressor shutdown devices, or high liquid level alarms?				
.167(a)	ESD system must:				
	- Discharge blowdown gas to a safe location				
	- Block and blowdown the gas in the station				
	- Shut down gas compressing equipment, gas fires, electrical facilities in compressor building and near gas headers				
	- Maintain necessary electrical circuits for emergency lighting and circuits needed to protect equipment from damage				
	ESD system must be operable from at least two locations, each of which is:				
	- Outside the gas area of the station				
	- Not more than 500 feet from the limits of the station				
	- ESD switches near emergency exits?				
.167 (b)	For stations supplying gas directly to distribution systems, is the ESD system configured so that the LDC will not be shut down if the ESD is activated?				

	COMPRESSOR STATIONS INSPECTION (Field)	S	TT	N/AN/
	(Note: Facilities may be "Grandfathered")	3	U	IN/AIN/
.167(c)	Are ESDs on platforms designed to actuate automatically by			·
	- For unattended compressor stations, when:			
	• The gas pressure equals MAOP plus 15%?			
	An uncontrolled fire occurs on the platform?			
	- For compressor station in a building, when			
	An uncontrolled fire occurs in the building?			
	• Gas in air reaches 50% or more of LEL in a building with a source of ignition (facility conforming to NEC Class 1, Group D is not a source of ignition)?			
.171(a)	Does the compressor station have adequate fire protection facilities? If fire pumps are used, they must not be affected by the ESD system.			
(b)	Do the compressor station prime movers (other than electrical movers) have over-speed shutdown?			
(c)	Do the compressor units alarm or shutdown in the event of inadequate cooling or lubrication of the unit(s)?			
(d)	Are the gas compressor units equipped to automatically stop fuel flow and vent the engine if the engine is stopped for any reason?			
(e)	Are the mufflers equipped with vents to vent any trapped gas?			
.173	Is each compressor station building adequately ventilated?			
.457	Is all buried piping cathodically protected?			
.481	Atmospheric corrosion of aboveground facilities			
.603	Does the operator have procedures for the start-up and shut-down of the station and/or compressor units?			
	Are facility maps current/up-to-date?			
.615	Emergency Plan for the station on site?			
.619	Review pressure recording charts and/or SCADA			
.707	Markers			
.731	Overpressure protection – reliefs or shutdowns			
.735	Are combustible materials in quantities exceeding normal daily usage, stored a safe distance from the compressor building?			
	Are aboveground oil or gasoline storage tanks protected in accordance with NFPA standard No. 30?			
.736	Gas detection – location			

Comments:			

	CONVERSION TO SERVICE RECORDS	S	U	N/A	N/C
.14 (a)(2)	Visual inspection of right of way, aboveground and selected underground segments				
(a)(3)	Correction of unsafe defects and conditions				
(a)(4)	Pipeline testing in accordance with Subpart J				
(b)	Pipeline records: investigations, tests, repairs, replacements, alterations (life of pipeline)				

	REPORTING RECORDS	S	U	N/A	N/C
191.5	Telephonic reports to NRC (800-424-8802)				
191.15	Written incident reports; supplemental incident reports (DOT Form RSPA F 7100.2)				
191.17 (a)	Annual Report (DOT Form RSPA F 7100.2-1)				
191.23	Safety related condition reports				

Ī	REPORTING RECORDS				N/A N/C
ſ	191.27	Offshore pipeline condition reports			
Ī	192.727 (g)	Abandoned facilities offshore, onshore crossing commercially navigable waterways reports			

	CONSTRUCTION RECORDS	S	U	N/A	N/C
.225	Test Results to Qualify Welding Procedures				
.227	Welder Qualification				
.241 (a)	Visual Weld Inspector Training/Experience				
.243 (b)(2)	Nondestructive Technician Qualification				
(c)	NDT procedures				
(f)	Total Number of Girth Welds				
(f)	Number of Welds Inspected by NDT				
(f)	Number of Welds Rejected				
(f)	Disposition of each Weld Rejected				
.303	Construction Specifications				
.325	Underground Clearance				
.327	Amount, Location, Cover of each Size of Pipe Installed				
.455	Cathodic Protection				

		OPERATIONS and MAINTENANCE RECORDS	$\mathbf{S}$	U	N/A	.N/0
191.17		Annual Report (Form 7100.2-1)				
.16		Customer Notification (Verification – 90 days – and Elements)				
.603(b)	.605(a)	Procedural Manual Review – Operations and Maintenance (1 per yr/15 months)				
.603(b)	.605(c)	Abnormal Operations				
.603(b)	.605(b)(3)	Availability of construction records, maps, operating history to operating personnel				
.603(b)	.605(b)(8)	Periodic review of personnel work – effectiveness of normal O&M procedures				
.603(b)	.605(c)(4)	Periodic review of personnel work – effectiveness of abnormal operation procedures				
.603(b)	.612(b)	Gulf of Mexico/inlets: Periodic underwater inspections based on the identified risk				
.709	.614	Damage Prevention (Miscellaneous)				
.709	.609	Class Location Study (If Applicable)				
.603(b)	.615(b)(1)	Location Specific Emergency Plan				
.603(b)	.615(b)(2)	Emergency Procedure training, verify effectiveness of training				
.603(b)	.615(b)(3)	Employee Emergency activity review, determine if procedures were followed.				
.603(b)	.615(c)	Liaison Program with Public Officials				
.603(b)	.616	Public Education				
.517		Pressure Testing				
.709	.619	Maximum Allowable Operating Pressure (MAOP)	_			
.709	.625	Odorization of Gas				
.709	.705	Patrolling (Refer to Table Below)				

		Class Location	At Highway and Railroad Crossings	At All Other Places	1		
		1 and 2	2/yr (7½ months)	1/yr (15 months)			
		3	4/yr (4½ months)	2/yr (7½ months)			
		4	4/yr (4½ months)	4/yr (4½ months)			
.709	.706	Leak Surveys (Refer to	Table Below)				

		OPERATIONS and	MAINTENANCE RECORDS		S	U	N/A N/O
		Class Location	Required	Not Exceed			
		1 and 2	1/yr	15 months			
		3	2/yr	7½ months			
		4	4/yr	4½ months			
.603b/.727g	.727	Abandoned Pipelines; Underw	rater Facility Reports				
.709	.731(a)	Compressor Station Relief Dev	vices (1 per yr/15 months)				
.709	.731(c)	Compressor Station Emergence	y Shutdown (1 per yr/15 months)				
.709	.736(c)	Compressor Stations – Detecti	on and Alarms (Performance Test)				
.709	.739	Pressure Limiting and Regulat	ing Stations (1 per yr/15 months)				
.709	.743	Pressure Limiting and Regulat	or Stations – Capacity (1 per yr/15 mo	onths)			
.709	.745	Valve Maintenance (1 per yr/	15 months)				
.709	.749	Vault Maintenance (≥200 cub	ic feet)(1 per yr/15 months)				
.603(b)	.751	Prevention of Accidental Ignit	ion (hot work permits)				
.603(b)	.225(b)	Welding – Procedure	-				
.603(b)	.227/.229	Welding – Welder Qualification	on				
.603(b)	.243(b)(2)	NDT – NDT Personnel Qualif	ication				
.709	.243(f)	NDT Records (Pipeline Life)					
.709		Repair: pipe (Pipeline Life); (	Other than pipe (5 years)				

Comments:			

		CORROSION CONTROL RECORDS	S	U	N/A	N/C
.491	.491(a)	Maps or Records				
.491	.459	Examination of Buried Pipe when Exposed				
.491	.465(a)	Annual Pipe-to-soil Monitoring (1 per yr/15 months)				
.491	.465(b)	Rectifier Monitoring (6 per yr/2½ months)				
.491	.465(c)	Interference Bond Monitoring – Critical (6 per yr/2½ months)				
.491	.465(c)	Interference Bond Monitoring – Non-critical (1 per yr/15 months)				
.491	.465(d)	Prompt Remedial Actions				
.491	.465(e)	Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months)				
.491	.467	Electrical Isolation (Including Casings)				
.491	.469	Test Stations – Sufficient Number				
.491	.471	Test Lead Maintenance				
.491	.473	Interference Currents				
.491	.475(a)	Internal Corrosion; Corrosive Gas Investigation				
.491	.475(b)	Internal Corrosion; Internal Surface Inspection; Pipe Replacement				
.491	.477	Internal Corrosion Control Coupon Monitoring (2 per yr/7½ months)				
.491	.481	Atmospheric Corrosion Control Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore)				
.491	.483/.485	Remedial: Replaced or Repaired Pipe; coated and protected; corrosion evaluation and actions				

N/A - Not Applicable

N/C - Not Checked

### **Attachment 1**

# Internal Corrosion Worksheet – Natural Gas Pipelines If an item is found to be unsatisfactory, an explanation must be included in this report.

NOTE: Refer to OPS Enforcement Manual, Code Compliance Guidelines PART 192, SUBPART I: CORROSION CONTROL for Internal Corrosion

1.	Are internal corrosion control procedures established? YN
2.	Is gas quality analysis done on a periodic basis for $O_{2}$ , $H_{2}O$ , $H_{2}S$ , and $CO_{2}$ , $Y$ NN
3.	Does operator inject corrosion inhibitor to mitigate internal corrosion? Y N
4.	Each coupon utilized or other means of monitoring internal corrosion must be checked two times each calendar year, but with interval not exceeding $7\frac{1}{2}$ months. Y N
5.	Does operator control internal corrosion effects caused by water by dehydration and water-soluble inhibitors? YN
6.	Does the operator pig their pipelines to remove any water or sludge buildups (sample analysis should be performed)? Y N
7.	Whenever pipe is removed (including coupons removed during hot taps), is it examined for evidence of internal corrosion? Y N
8.	Does the operator track internal corrosion and take corrective action to prevent recurrence? Y N
9.	Which method does the operator utilize to determine the effectiveness of its corrosion inhibition program?  Gas and Fluid Analysis Rates of pipeline corrosion as determined by coupons Solids removed from the system Analysis of inhibitor samples from the pipeline Magnetic and electronic device (pigs) Other
10.	Is the inhibitor compatible with the product being transported? Y N N/A
11.	Is gas containing more than 0.25 grain of $H_2S$ per 100 standard cubic feet being stored in pipe-type or bottle-type holders? Y N N/A
12.	Does the operator analyze water samples relating to corrosion activity at drips downstream of compressor stations, dehydration, and/or gas processing plants? Y $\underline{\hspace{1cm}}$ N/A $\underline{\hspace{1cm}}$
13.	Has the operator identified low points throughout their system where fluids are likely to accumulate and does the operator identify how to remove the fluids from the lines? Y $\underline{\hspace{1cm}}$ N $\underline{\hspace{1cm}}$
	Does the operator specify the frequency in how often the fluids are removed? Y N
14.	Does the operator address fluid accumulation in unpig-able lines (i.e., fluid samples, coupons, etc.)? Y N N/A
Cor	nments:

## Attachment 2 SCADA Gas Worksheet

If an item is found to be unsatisfactory, an explanation must be included in this report.

The topics on this worksheet regard general SCADA functionality. A more thorough SCADA evaluation may be warranted based on the results of this worksheet or prompts by other events.

- Pipeline Safety Advisory Bulletins (reference <a href="http://www.gpoaccess.gov/fr/advanced.html">http://www.gpoaccess.gov/fr/advanced.html</a>)
   Review the following with the operator:
  - Advisory Bulletin ADB-99-03 in July 16,1999 Federal Register p. 38501 (Ref. fr16jy99N Potential Service Interruptions in Supervisory Control and Data Acquisition Systems) – Discuss SCADA system performance.
  - Advisory Bulletin ADB-03-09 in December 23, 2003 Federal Register, pp. 74289-74290 (Ref. fr23de03N Pipeline Safety: Potential Service
     Disruptions in Supervisory Control and Data Acquisition Systems) Discuss consideration of possible SCADA system disruptions caused
     by system maintenance or upgrade.

by system maintenance of upgrade.
Comments:
Operators may choose to use SCADA, or other forms of automation, to comply with the Pipeline Safety Regulations. The following code subsections could apply if a SCADA system is utilized.
2. §192.605(c)(1)(iii) – Loss of communications
<ul> <li>Offsite Backup Center</li> <li>Data Transfer to Redundant or Offsite Processors</li> </ul>
Battery and/or Emergency Generator
<ul> <li>Redundant Data Communications Paths, Automatic Restoration or Manual</li> </ul>
<ul> <li>Data Reduction &amp; Archiving</li> <li>Indication of Stale, Forced or Manually Overridden Data, or System Lockup</li> </ul>
Operating Practices During Data Communication Outages
<ul> <li>\$192.731(c) &amp; .745 – Testing SCADA controlled valves and safety devices</li> <li>Frequency and Scope in Testing of SCADA Controlled Devices' Functionality</li> <li>Inclusion of SCADA Component in the Tests</li> <li>Frequency and Scope of Testing Emergency Shutdown Devices</li> </ul>
Comments:
4. \$192.603 General provisions  (b) Each operator shall keep records necessary to administer the procedures established under \$192.605.  Engage SCADA corresponds to the board on an additional configurations.
<ul> <li>Ensure SCADA screens/status board are updated to reflect current pipeline configurations</li> <li>Ensure pipeline safety parameters are current (i.e., MAOP, alarm set points, etc.)</li> <li>Review any emergency or abnormal operating condition records generated by the SCADA system (alarm logs, trending data, etc.). Compare abnormal operating conditions noted in the SCADA data with the Operator's report and reporting procedures as related to those abnormal operating conditions.</li> </ul>
Comments:

# **Attachment 3** Operator Qualification Worksheet For any item below checked N, an explanation must be included in this report.

The following questions are to be used by the inspector to provide information in determining a need for a more intensive OQ field inspection.

1.	Do the supervisors know what actions to take, as required by the operator's OQ program, when an individual's performance of a covered task may have contributed to an incident? Y N
2.	Do the supervisors know what actions to take, as required by the operator's OQ program, when an individual is identified who may no longer be qualified to perform a covered task? Y N
3.	Do the individuals performing covered tasks know how to recognize and react to abnormal operating conditions (AOCs) that may be encountered while performing tasks? Y $\_\_\_$ N $\_\_\_$
4.	Are the employee and/or contractor individuals observed performing covered tasks qualified per OQ program requirements? (Documentation may be a hardcopies or database records available at the job site or local office.) Y N
5.	Are the individuals who are observed performing covered tasks adhering to operator's procedures? Y N
Com	nments: